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a cylindrical hub of which both ends are opened, the cylindrical hub having an inner protruding portion formed along a central portion of an inner circumferential face of the hub and an outer protruding portion formed along an upper side of the outer circumferential face of the hub, the inner protruding portion being fixedly inserted between the lower ball bearing and the upper ball bearing;

a permanent magnet bonded to a lower side of an outer circumferential face of the outer protruding portion of the hub;

a disk mounted on an upper face of the inner protruding portion of the hub; and  
a clamp fixed to the hub using a bolt in order to mount the disk.

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2. (Clean Copy) A disk-spindle motor having: a base plate having a circular hole at a central portion of the base plate; a housing fixedly inserted into the circular hole of the base plate; a cylindrical fixed shaft formed integrally with the housing at an upper central portion of the housing and having a jaw portion at a central portion of an outer circumferential face of the housing; a stator bonded to an upper end portion of an inner circumferential face of the circular hole of the base plate; a thrust pad vertically inserted at the fixed shaft and mounted on the jaw portion of the fixed shaft, and further comprising:

a cylindrical hub of which both ends are opened, the cylindrical hub having an outer protruding portion protruding from an upper side of an outer circumferential face of the hub and an inner protruding portion protruding along a lower side of an inner circumferential face of the hub, the cylindrical hub spaced by a certain interval from the thrust pad;

a permanent magnet bonded to a lower side of an outer circumferential face of the outer protruding portion of the hub;

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a disk mounted on the outer protruding portion of the hub; and

a clamp fixed to the hub using a bolt in order to mount the disk.